RCA TECHNICAL PAPERS

(1946)

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RCA REVIEW has listed in this Index substantially all published English-language technical papers on subjects in the radio, electronics and related fields, the author or a coauthor of which was associated with Radio Corporation of America (including its various divisions and subsidiary companies) at the time of the paper's preparation or at the time the work described in the paper was performed.

The chronological index is followed by an alphabetical listing of papers by title, a section arranged alphabetically by authors, and a subject classification section.

This Index [Volume II (a)] supplements "RCA TECHNICAL PAPERS (1919-1945)—INDEX—Volume I." It is planned to publish these yearly Indexes as sub-volumes, consolidating them under one cover, at the end of a five-year period, as "RCA TECHNICAL PAPERS (1946-1950)—INDEX—Volume II," subsequent volumes covering successive five-year periods.

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The Manager, RCA REVIEW

RCA Laboratories,
Princeton, N. J.
January 17, 1946

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ABBREVIATIONS

(Note—Titles of periodicals not listed below, as well as book titles, are not abbreviated.)

Amer. Jour. Phys. .....AMERICAN JOURNAL OF PHYSICS
An. Amer. Acad. Pol. Soc. Sci...ANNALS OF THE AMERICAN ACADEMY OF POLITICAL AND SOCIAL SCIENCES
Broad. Eng. Jour. .....BROADCAST ENGINEERS JOURNAL
Elec. Eng. .....ELECTRICAL ENGINEERING (TRANSACTION A.I.E.E.)
Electronic Ind. .....ELECTRONIC INDUSTRIES
FM and Tele. .....FM AND TELEVISION
Ind. Eng. Chem. .....INDUSTRIAL AND ENGINEERING CHEMISTRY
Ind. Standard .....INDUSTRIAL STANDARDIZATION (AMERICAN STANDARDS ASSOCIATION JOURNAL)
Inter. Project .....INTERNATIONAL PROJECTIONIST
Jour. Acous. Soc. Amer......JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA
Jour. Appl. Phys. .....JOURNAL OF APPLIED PHYSICS
Jour. Amer. Ceramic Soc. .....JOURNAL OF THE AMERICAN CERAMIC SOCIETY
Jour. Chem. Phys. .....JOURNAL OF CHEMICAL PHYSICS
Jour. Eng. Educ. .....JOURNAL OF ENGINEERING EDUCATION
Jour. Frank. Inst. .....JOURNAL OF THE FRANKLIN INSTITUTE
Jour. Opt. Soc. Amer. .....JOURNAL OF THE OPTICAL SOCIETY OF AMERICA
Jour. Soc. Mot. Pic. Eng. .....JOURNAL OF THE SOCIETY OF MOTION PICTURE ENGINEERS
Jour. Tele. Soc. (Brit.) .....JOURNAL OF THE TELEVISION SOCIETY (BRITISH)
Phys. Rev. .....PHYSICAL REVIEW
Princeton Eng. .....PRINCETON ENGINEER
Proc. Amer. Phil. Soc. .....PROCEEDINGS OF THE AMERICAN PHILOSOPHICAL SOCIETY
Proc. I.R.E. .....PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS
Proc. Rad. Club Amer. .....PROCEEDINGS OF THE RADIO CLUB OF AMERICA
Product Eng. .....PRODUCT ENGINEERING
Project Eng. .....PROJECTION ENGINEERING
QST .....QST (A.R.R.L.)
Radio and Tele. .....RADIO AND TELEVISION
Rad. Appl. Jour. .....RADIO APPLIANCE JOURNAL
RCA Rad. Serv. News .....RCA RADIO SERVICE NEWS
Rev. Mod. Phys. .....REVIEWS OF MODERN PHYSICS
Rev. Sci. Instr. .....REVIEW OF SCIENTIFIC INSTRUMENTS
RMA Eng. .....RMA ENGINEER
Sci. Monthly .....SCIENTIFIC MONTHLY
Teleg. and Teleph. Age .....TELEGRAPH AND TELEPHONE AGE

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5	"Intermodulation Distortion of Low Frequencies in Sound Film Recording", F. G. Albin, *Jour. Soc. Mot. Pic. Eng.*, (January)	1946
6	"Multi-Unit Construction—A Feature of New FM Transmitters", J. L. Ciba, *Broadcast News* (January)	1946
7	"New FM Transmitters", R. J. Newman, *Broadcast News*, (January)	1946
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10	"Push-Pull Frequency Modulated Circuit and Its Application to Vibratory Systems", A. Badmaieff, *Jour. Soc. Mot. Pic. Eng.*, (January)	1946
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27	"Transmission of Television Sound on the Picture Carrier", G. L. Fredendall, K. Schlesinger, and A. C. Schroeder, *Proc. I.R.E.*, (February)	1946
28	"Volt Ohmyst Prepared for F-M Requirements", A. B. Liebscher, *RCA Rad. Serv. News*, (February)	1946
29	"A New Exciter Unit for Frequency Modulated Transmitters", N. J. Oman, *RCA REVIEW*, (March)	1946
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38	"Induction Heating in Radio Electron-Tube Manufacture", E. E. Spitzer, *Proc. I.R.E.*, (March)	1946
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42	"Quantum Effects in the Interaction of Electrons with High Frequency Fields and the Transmission to Classical Theory", L. P. Smith, *Phys. Rev.*, (March 1 and 15)	1946
43	"Balanced Phase Shift Discriminators", S. W. Seeley, *RCA Licensee Bulletin LB-666*, (March 1)	1946
44	"Detent Station Selection Systems", W. J. Stolze, *RCA Licensee Bulletin LB-662*, (March 8)	1946
45	"Input Impedance of Several Receiving-Type Pentodes at F-M and Television Frequencies", F. Mural, *RCA Licensee Bulletin LB-661*, (March 15)	1946
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49	"Further Improvement in the Resolving Power of the Electron Microscope", J. Hillier, *Jour. Appl. Phys.*, (April)	1946
50	"Grounded-Grid Power Amplifiers", E. E. Spitzer, *Electronics*, (April)	1946
51	"Intermittent Oscillators—Their Cause and Correction", S. F. Pusey, *RCA Rad. Serv. News*, (April)	1946
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63	"Behavior of a New Blue-Sensitive Phototube in Theater Sound Equipment", J. D. Phyfe, *Jour. Soc. Mot. Pic. Eng.*, (May)	1946
64	"Electronic Transducers", H. F. Olson and J. Avins, *RCA Licensee Bulletin LB-667*, (May 27)	1946
65	"Photographic Film, Television Pick-Up Tubes and the Eye", A. Rose, *Inter. Project.*, (May)	1946
66	"Pioneering in Television", David Sarnoff, Booklet, RCA Department of Information, New York, N. Y., (May)	1946
67	"Practical Television", R. A. Monfort, *Radio News*, (May)	1946
68	"Preliminary Sound Recording Tests with Variable-Area Dye Tracks", R. O. Drew and S. W. Johnson, *Jour. Soc. Mot. Pic. Eng.*, (May)	1946
69	"Radar Aids to Navigation—Loran, Teleran, Television", I. Wolff, *Princeton Eng.*, (May)	1946
70	"Radio Relay Communications With Pulse Modulation", T. Gooteé, *Radio News*, (May)	1946
71	"Resonant-Cavity Measurements", R. L. Sproull and E. G. Linder, *Proc. I.R.E.*, (May)	1946
72	"A Method of Measuring the Degree of Modulation of a Television Signal", T. J. Buzalski, *RCA REVIEW*, (June)	1946
73	"A Multi-Channel VHF Radio Communications System", J. B. Knox and C. H. Brereton, *RCA REVIEW*, (June)	1946
74	"An Experimental Color Television System", R. D. Kell, G. L. Fredendall, A. C. Schroeder, and R. C. Webb, *RCA REVIEW*, (June)	1946
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88	"The Absorption of Microwaves by Gases", W. D. Hershberger, *Jour. Appl. Phys.*, (June)	1946
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90	"The RCA Antennalyzer", G. H. Brown and W. C. Morrison, *Broadcast News*, (June)	1946
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92	"Wide Range Loudspeaker Developments", H. F. Olson and J. Preston, *RCA REVIEW*, (June)	1946
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100	"Electron Guns for Television Application", G. A. Morton, *Rev. Mod. Phys.* (July)	1946
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105	"Modernization Desired in Studio Equipment", L. L. Ryder *Electronics* (July)	1946
106	"Canada's New Short Wave Transmitters", H. B. Seabrook and F. R. Quance, *Electronic Ind.* (July)	1946
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127	"Characteristics of the Pylon FM Antenna", R. F. Holtz, *FM and Tele.* (September)	1946
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147	"The TK-30A Camera with the Image Orthicon", N. S. Bean, *Broadcast News* (October)	1946
148	"Determining the Population Served by an FM Station", *Broadcast News* (October)	1946
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158	"A Unified Approach to the Performance of Photographic Film, Television Pickup Tubes, and the Human Eye", A. Rose, *Jour. Soc. Mot. Pic. Eng.* (October)	1946
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165	"Stagger-Tuned I.F. Amplifiers", A. Newton and R. S. Mautner, *RCA Licensee Bulletin LB-682,* (October 1)	1946
166	"The Use of Powdered Iron in Television Deflecting Circuits", A. L. Friend, *RCA Licensee Bulletin LB-688,* (October 3)	1946
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168	"Electromagnetic Horns and Parabolic Reflectors", T. Gooteé, *Radio News,* (November)	1946
169	"TELEVISION—A Bibliography of Technical Papers by RCA Authors (1929-1946)", Phamphlet, RCA REVIEW, RCA Laboratories Division, Princeton, N. J. (November)	1946
170	"The Universal Electron Microscope as a High Resolution Diffraction Camera", R. G. Picard and J. H. Reisner, *Rev. Sci. Instr.* (November)	1946
171	"New RCA-NBC Recording Studio", G. M. Nixon and J. Volkmann, *Electronic. Ind.,* (November)	1946
172	"An M-Type Band Pass Television Amplifier", F. Mural, *RCA Licensee Bulletin LB-687,* (November 7)	1946

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177	"Teleran", D. H. Ewing and R. W. K. Smith, *RCA REVIEW*, (December)	1946
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